

## MSG 089A - RED FD07 PAYLOAD SUMMARY

1 FREESTAR

2  
3 MEIDEX Sprite observations continue to go well. An important moon calibration was  
4 performed on orbit 86 and very prominent thunderstorms were tracked on orbit 87 over  
5 central Africa. As of 5/14:00 MET analysis of Orbit 87 confirms images of 4 Sprites and 2  
6 ELVES were captured. Also, very fortuitously, images of 2 meteorites entering the  
7 atmosphere were also captured. The images may be of high value to astronomical  
8 researchers at Tel Aviv University.  
9

10 SOLSE Science Set 2 (4 Limb Views and 1 Earth View) was completed on Blue FD07. Data  
11 from both Science Sets is still being analyzed. Preliminary indications are that the  
12 Earth view data from both Science Sets was not recorded as expected in the SOLSE  
13 instrument. All LORE data is present. The SOLSE Team will continue to analyze the data  
14 and provide a more thorough status tomorrow.  
15

16 The second CVX-2 critical period started on-time at 5/12:00 MET and the experiment is  
17 performing well  
18

19 LPT operations continue. On FD05 and FD06 thirteen TDRS COMM events and 1 GPS  
20 event were completed successfully and the GPS experiment appears to be functioning well.  
21 A power cycle of LPT was required at 5/01:30 MET due to a CPU hangup. LPT has been  
22 functioning nominally since the power cycle.  
23

24 The SOLCON team is comparing measurements obtained thus far with data from a similar  
25 instrument on SOHO. The SOLCON data will eventually be used to calibrate the SOHO  
26 instrument.  
27

28  
29 SPACEHAB

30  
31 SPACEHAB subsystem operations are still experiencing some problems with the Water  
32 Separator Assemblies and EDGA crashes. An IFM to attempt recovery of the WSA is still  
33 being formulated. The data system performance remains marginal, but good payload  
34 science is still being achieved by most payloads that utilize the system.  
35

36 SPACEHAB payloads generally continue to perform well with the exception of MSTRS,  
37 which is still experiencing problems with data downlink, and CM-2 which is still behind  
38 schedule by one LSP run.  
39

40 MSTRS uplink commands are working and downlink data has improved. The MSTRS  
41 team is still trying to determine the origin of the downlink data problem.  
42

43 COMP2PLEX is still experiencing problems with their GSE computer when the EGDA  
44 crashes. The operations of the first loop have been finished and experiment results are of  
45 high scientific value.  
46

47 OSTEO's attempt at correcting the knob problem failure was unsuccessful.  
48

49 MGM appreciates the good work in the setup and conducting of test number 6 of the MGM  
50 experiment. Many thanks to K. C. for getting the run accomplished. The PI is very excited  
51 about the results. We have now completed 6 successful runs.

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CM-2 has completed 13 successful LSP runs and the PI and the LSP team are very appreciative for your efforts getting the LSP runs.

ASTROCULTURE received more photos of the growing flowers. The buds are beginning to open and the plants look healthy, their growth is progressing. Plans are now being made for the sampling of the buds and the surrounding air.

The HLS MPFE Team thanks-you for getting our bugs back on the right track. The PI is extremely pleased with the outcome of your troubleshooting efforts.

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